

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 December 2006 (14.12.2006)

PCT

(10) International Publication Number
WO 2006/133348 A2

(51) International Patent Classification:
A61B 5/145 (2006.01)

(21) International Application Number:
PCT/US2006/022254

(22) International Filing Date: 8 June 2006 (08.06.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/688,470 8 June 2005 (08.06.2005) US

(71) Applicant and

(72) Inventor: SHER, Phillip, Michael [US/US]; 18 Mifflin Court, Plainsboro, New Jersey 08536 (US).

(74) Agent: GANGE, David, M.; Altimatia, LLC, 16 Elm Ridge Road, Pennnington, NJ 08534 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

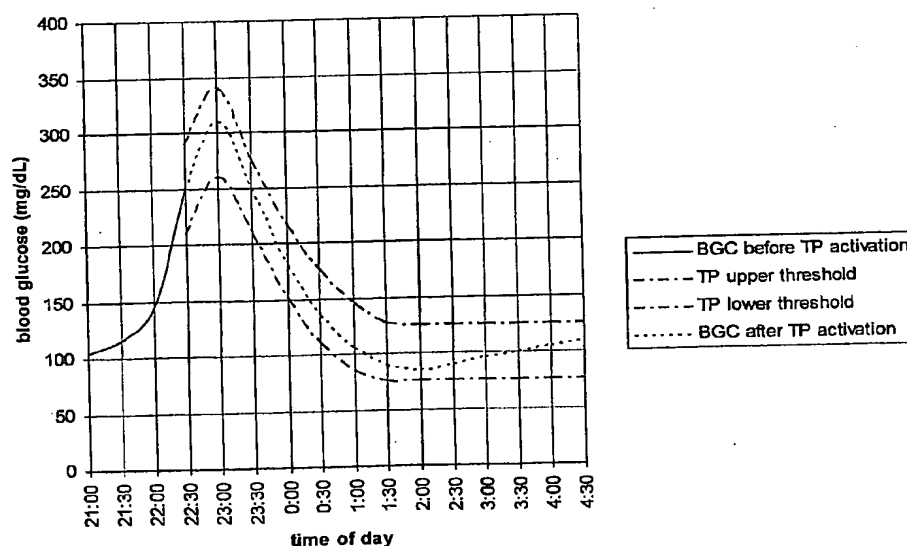
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- of inventorship (Rule 4.17(iv))

Published:

- without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FLUCTUATING BLOOD GLUCOSE NOTIFICATION THRESHOLD PROFILES AND METHODS OF USE



(57) Abstract: Embodiments of the present invention provide a new system and methods for monitoring blood glucose concentration. A user of a continuous glucose monitor may program upper and lower blood glucose notification thresholds to fluctuate over time in order to facilitate management of the short-term effects of food consumption, insulin delivery aberrations, physical activity, emotions, and unforeseen circumstances.